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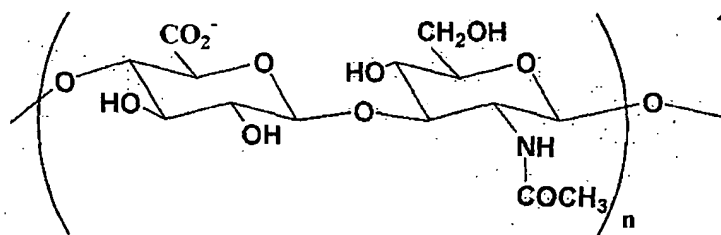


FIG. 2A

Hyaluronic Acid (Hyaluronan)

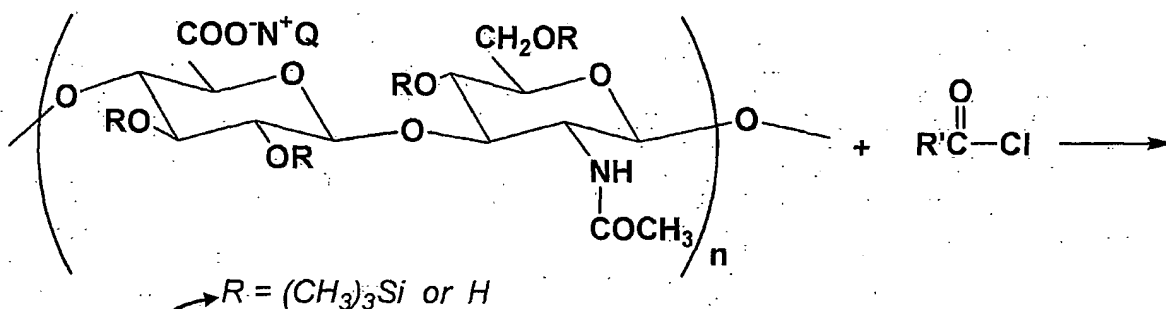


FIG. 2B

where  $R = \text{H}$ , structure represents plain  $\text{HA}^- \text{-QN}^+$  complex  
 where  $R = \text{Si}(\text{CH}_3)_3$ , structure represents silylated  $\text{HA}^- \text{-QN}^+$

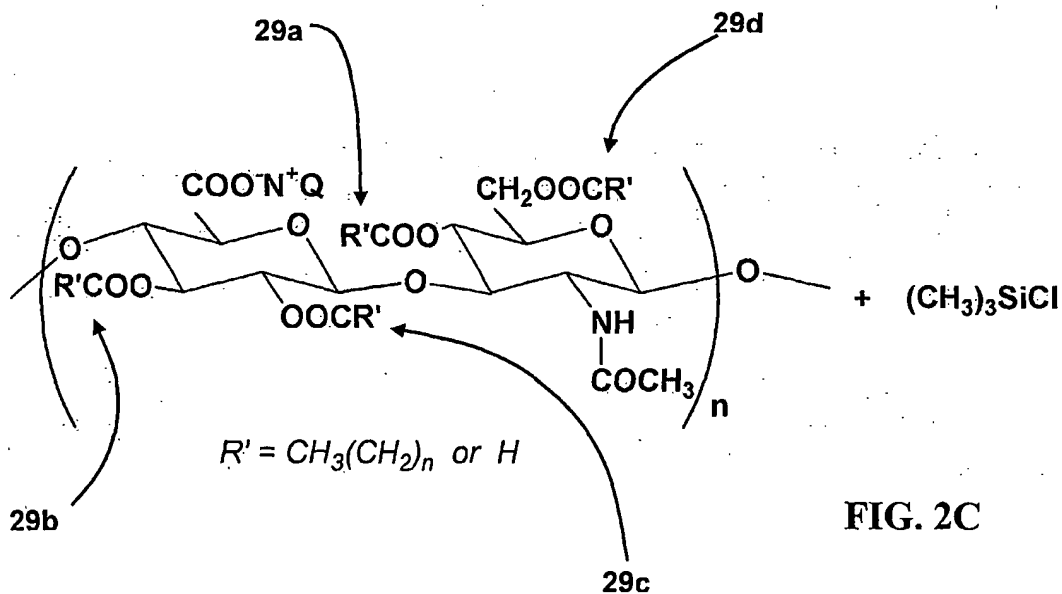


FIG. 2C

An acylated silylated  $\text{HA}^- \text{-QN}^+$  complex structure,  
 such that  $\text{Si}(\text{CH}_3)_3$  groups now replaced with  $\text{R}'\text{CO}$

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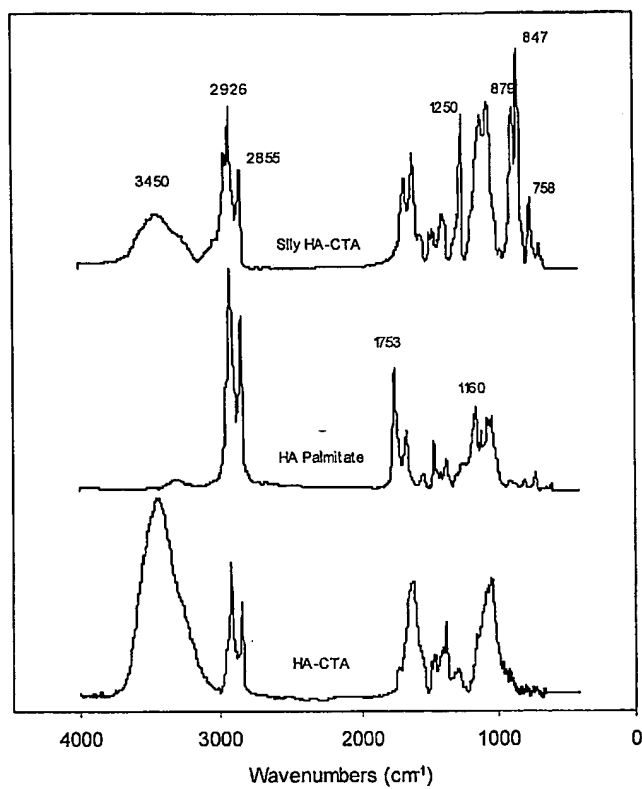


FIG. 3

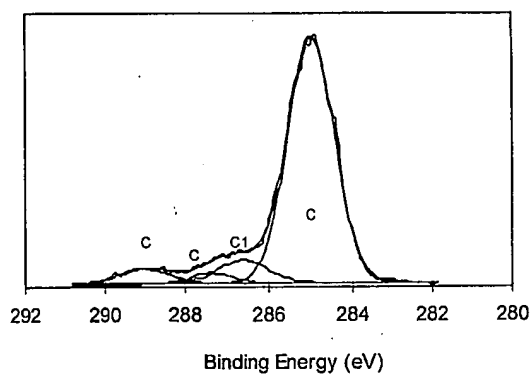


FIG. 4A

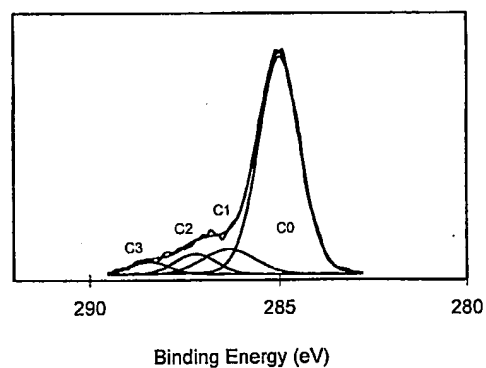


FIG. 4B

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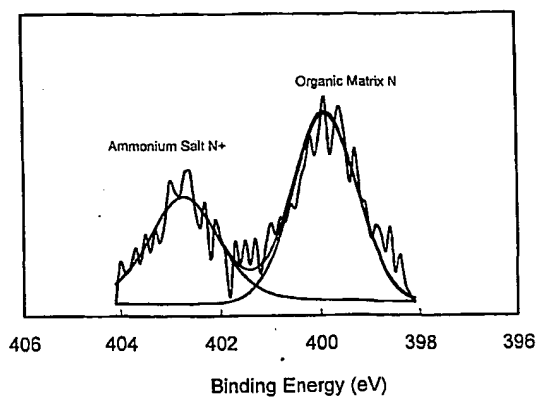


FIG. 5A

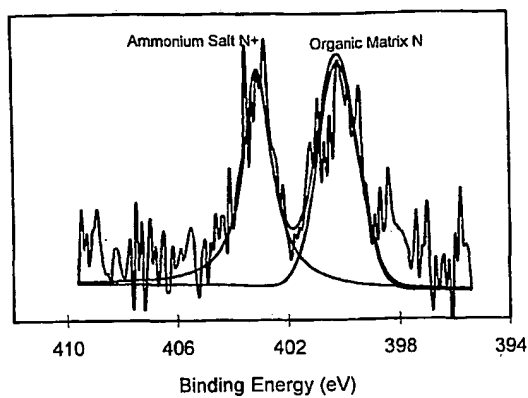


FIG. 5B

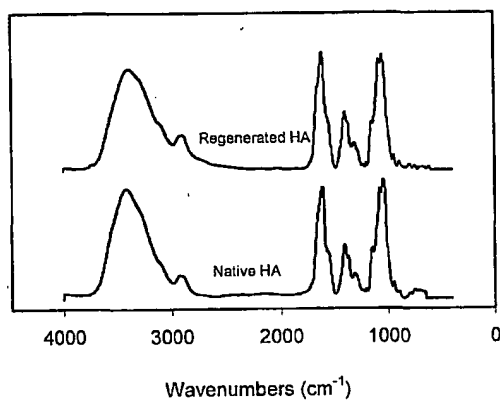


FIG. 6

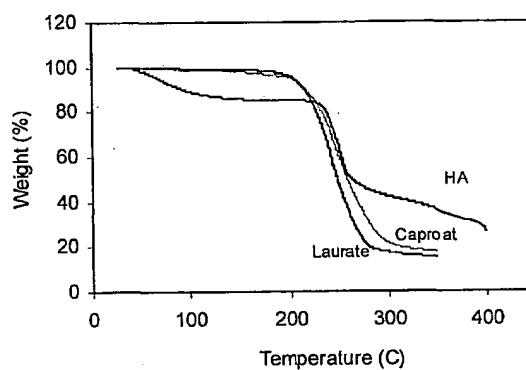


FIG. 7

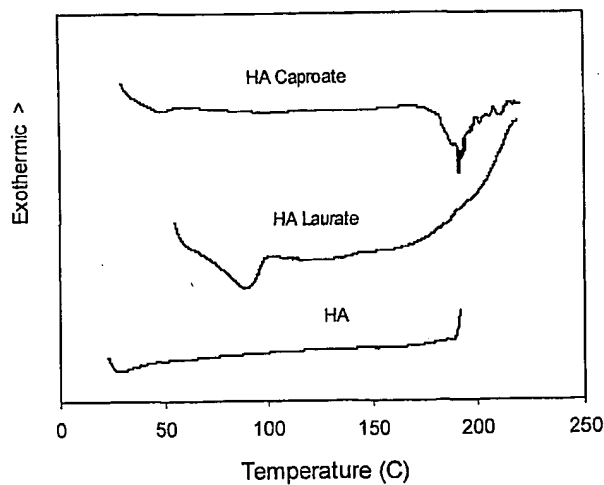


FIG. 8